INDEX TO VOLUME 6 Authors

Abarbanell, N.R., 178 Abraham, E., 549 Albertson, T.E., 131, 654 Almquist, T., 21 Amitai, Y., 214 Amsterdam, J.T., 224 Anderson, F., 4 Anderson, G.V., 241 Anderson, T.E., 82 Applebaum, D., 315, 319 Aprahamian, C., 358 Armstrong, L.E., 316 Ashton, J., 52 Ashwal, S., 247 Augustine, J.J., 80 Aust, S.D., 569

Baack, B., 219 Baker, F.J., 640 Baker, J.L., 180 Baker, P.S., 346 Barish, R., 21 Barrett, S., 397 Bauernshub, D., 11 Berman, D.A., 206 Bernstein, M.A., 614 Bessen, H.A., 341 Bicknell, J.S., IV, 569 Bidwell, C., 324 Bierman, S.F., 266 Bock, B.F., 89 Boenning, D.A., 375 Bonadio, W.A., 330 Borak, J., 462 Borok, Z., 449 Bourland, J.D., 561 Bowman, H.M., 475 Bozzuto, T.M., 134 Brader, E.W., 151 Brennan, D.F., 327 Brody, S.L., 241 Brooks, C., 591 Brown, C.G., 52 Brown, C.K., 157 Browne, B., 21 Brunette, D.D., 124, 577 Buckingham, B.D., 113 Burguires, T., 128 Burkle, F.M., 137 Burns, B., 634

Caravati, E.M., 143 Charles, J., 188, 290 Clare, R.A., 355 Clark, R.F., 555 Clarke, W., 465 Cline, J.R., 475 Cohen, D.J., 475 Cohen, M.A., 203 Coleridge, S.T., 255 Copass, M.K., 14 Craren, E.J., 108 Cummings, C.C., 1 Curry, S., 681

Dagi, T.F., 312
Danosi, S.F., 89
Daudiss, K., 84
Dedhia, H.V., 566
Demarest, G., 219
Dickerson, S.E., 353
Doem, A., 683
Doezema, D., 628
Dougherty, J., 202, 204
Douglas, J.C., 131
Duarte, B., 120
Duckett, S., 453

Eisenberg, M.S., 319 Eitel, D., 11 Eliastam, M., 236 Emerman, C.L., 580 Emmel, A.C., 260

Feero, S., 443 Fein, S.A., 84 Fesmire, F.M., 602 Fihn, S.D., 14 Fink, S., 549 Fischer, R., 577 Foster, K.S., 561 Foulke, G.E., 654 Foutch, R.G., 596 Freed, H.A., 678

Gallagher, E.J., 4 Garber, M.W., 24 Garnett, A.R., 108, 555 Geddes, L.A., 561 Gennis, P., 4 Glaeser, P.W., 330 Gonzalez, E.R., 108, 555, 676 Goosmann, M., 569 Gotsman, M., 315 Graff, L.G., 93 Gratton, M., 679 Groleau, G., 21 Guertler, A.T., 205 Gunning, M.A., 93 Gutman, J.B.L., 241 Guzzardi, L.J., 203

Hadas, E., 319
Hagen, J.F., 580
Hain, L., 4
Haines, S.J., 173
Hallagan, L.F., 555
Hallstrom, A., 319
Hamilton, G.C., 416, 540
Hancock, D., 580
Harding, S.M., 244
Hargarten, K.M., 358
Hauswald, M., 628
Haver, D.W., 443

Hawkins, N.S., 113 Haynes, B.E., 260 Hedges, J.R., 85, 224, 314, 443 Heller, M., 449 Heller, M.B., 39, 78 Hennes, H., 330 Henrichs, W., 596 Herbener, D., 462 Hess. D., 11 Ho, J., 459 Hollerman, J.J., 614 Horattas, M.C., 27 Howell, J., 350 Howell, J.M., 7 Howes, D.S., 165, 370 Huang, E., 350 Hubbard, R.W., 316 Humphries, C.T., 611

llan, Y., 315 Ireland, K., 475

Jagoda, A., 128, 250 Jones, J., 202, 204 Jones, J.C., 268

Kaplan, L.A., 346 Kaplan, P., 453 Katan, B.S., 353 Kelen, G.D., 52, 180 Kellermann, A.L., 14 Klaustermeyer, W.B., 456 Klein, M., 11 Klein-Schwartz, W., 209 Kobernick, M., 370 Kolodzik, P.W., 584 Kottamasu, S.R., 614 Krause, G.S., 569 Krenzelok, E.P., 201, 355 Krohmer, J.R., 584

Larmon, B., 681 Lazzell, V.A., 566 Leicht, M.J., 82 Leikin, J.B., 49, 120 Lepinski, S.M., 475 Lessor, S.R., 268 Levinsky, J.J., 424 Levitt, M.A., 273 Levy, R.C., 415 Liem, L.B., 236 Lindsey, D., 42, 362, 424 Lindsey, W.E., 362 Litovitz, T., 80 Litovitz, T.L., 65, 209, 479 Little, N., 679 Litwin, P.E., 319 LoGerfo, J.P., 14 Lombardo, D., 84 Losek, J.D., 330 Lovejoy, F.H., Jr., 214, 439 Ma. F., 631 MacDonald, G., 634 Mannix, T., 681 March, G.G., 569 Marder, E., 219 Margulies, J.L., 317 Martin, T.G., 65, 113, 479 Martinez, J.A., 268 Martinez, R., 268 Mateer, J., 358 Matyunas, N., 479 May, R.B., 594 McCabe, C., 519 McCabe, J.B., 228, 584 McCabe, J.L., 453 McClung, B.K., 108 McDill, P.W., 268 McFeeley, P., 219 McIvor, M.E., 1 McMullen, M.J., 202, 204 McSwain, N.E., Jr., 268 Merigian, K.S., 346 Merola, J., 439 Meyn, N.P., 599 Mickel, H.S., 31 Mimura, G., 459 Mooney, R.P., 341 Moore, B., 443 Moore, E.E., 607 Moore, G.P., 137 Moorman, D.W., 27 Morgan, J.A., 7 Morgan, W.J., 611 Mullin, M.J., 584 Mutter, M., 591 Myers, R.A., 634

Nagel, E., 319
Nayini, N.R., 569
Nelson, D.B., 330
Nelson, M.S., 538
Newman, M.M., 108
Nicholson, D., 545
Nicholson, T.R., 327
Nishide, K., 427
Noel, N.E., 609
Noritake, D.T., 456
Norris, R., 206
Novak, R.M., 120
Nuri, I., 319

O'Malley, R.J., 333 Ober, K.P., 435 Oberg, M.S., 681 Oderda, G.M., 209 Ohashi, N., 427 Olshaker, J.S., 157, 353 Ornato, J.P., 108, 555, 676 Osler, T., 219

Palatnick, W., 200 Pane, G.A., 82

Paris P. 449 Paris, P.M., 39, 282 Paton, D.L., 232 Pearl, J.M., 459 Pesce, A.J., 346 Petry, E., 247 Peverini, R., 247 Pinchak, A.C., 580 Plummer, D.W., 124 Podolsky, S.M., 244 Powers, R.D., 647

Radford, M.J., 93 Ramoska, E.A., 278, 424, 465 Ramzy, A., 634 Rashkin, M.C., 346 Reed, M.D., 318 Reese, W.A., 555 Renzi, A.M., 24 Reynolds, V.R., 594 Rhee, K.J., 131, 333 Rider, D.E., 113 Riggio, S., 128, 250 Riscili, C.E., 561 Roberge, R.J., 200, 327, 602 Roberts, J.R., 346 Robertson, W.O., 544 Rodenberg, H., 679 Rollins, D.E., 104 Rose, S.C., 607 Rose, W.D., 82 Rosenthal, R.E., 666

Both. A. 319 Rothwell, K.G., 681 Rottman, S.J., 681 Rund, D.A., 306 Ruthman, J.C., 599, 609

Sabulsky, N., 11 Sacchetti, A., 424 Sacchetti, A.D., 278 Salmon, J., 545 Sanz, C., 327 Saunders, C.E., 337 Savitt, D.L., 378 Sayers, D.G., 435 Schauben, J.L., 602 Schiebel, F., 566 Schmitz, B.F., 209, 479 Schneider, S., 449 Schwytzer, D.J., 224 Shannon, M., 439 Shepherd, S.M., 188, 290 Shimazu, T., 427 Shultz, B., 443 Simon, R.R., 85 Singal, B.M., 314 Singer, J.I., 228 Sirr. S.A., 614 Skiendzielewski, J.J., 82 Sklar, D.P., 219, 390 Smith, D.B., 89 Smith, D.S., 330 Smith, J.P., 666

Snyder, H.S., 618 Springer, M.F.B., 640 Stanisic, T., 424 Stanisic, T.H., 42 Stene, J.K., 634 Sternbach, G., 236

Stewart, R., 449 Stewart, R.D., 39 Stofberg, L., 634 Sue, M.A., 456 Sugimoto, H., 427 Sugimoto, T., 427 Sullivan, J.B., 201 Sumchai, A., 236

Sundberg, D.K., 435 Surpure, J.S., 397 Svenson, J., 679 Tayal, V.S., 555

Taylor, R.B., 306 Teba, L., 566 Tenenbein, M., 200 Terai, C., 427 Timberlake, G.A., 268

Tso, E., 21 Turner, J.E., 333 Tyson, A.A., 435

Unger, P-F., 683

Veltri, J.C., 80, 104 Verdile, V.P., 39

Vicario, S.J., 324 Voorhees, W.D., 561

Wagener, J.S., 611 Walker, J.S., 232 Walsh-Kelly, C., 330 Ward, R.E., 333 Warden, T., 424 Warden, T.M., 278 Wason, S., 378 Wears, R.L., 327 Weigel, J.A., 113 Weinshenker, E., 224 Weiss, T., 315 Welch, R.D., 89 Werman, H.A., 306 Werne, C.S., 93 Wertheimer, J.H., 244 White, B.C., 569 White, J.D., 200, 414, 677, 539 Whye, D., 21 Wigle, R.L., 385

Yamamoto, L.G., 35 York, R.C., 255 Yoshioka, T., 427 Young, A.J., 316

Zimmers, T., 47, 316, 382, 471, 472, 631 Zun, L., 165, 370 Zwanger, M.L., 89

Subjects

AAPCC. see American Association of Poison Control Centers

Abdominal injury, 519-521 diaphragmatic hernia from, 594-595

pelvic fracture from, 621 referred shoulder pain from, 24-26

Abdominal pain

of appendicitis, 614-617 differential diagnosis of, 351 of hematometra, 351-352

of Meckel's diverticulum, 137, 139, 141, 161

of pelvic abscess, 459-461

Abscess

cervical, 27 liver, 24, 628-630 pelvic, 459-461, 619 tuboovarian, 459

Acebutolol poisoning, 493, 512 Acetaminophen poisoning

AAPCC study of, 488, 501, 510-511 frequency and severity of, 104-107 screening tests for, 18

Acid-base disorders

during cardiac arrest, 580-583 critical care medicine for, 660 hypothermic hypotension and, 586-589

metabolic acidosis, see Metabolic acidosis ACLS, see Advanced cardiac life support

Acquired immunodeficiency syndrome health care providers, risk to, 180-184 precautionary measures for minimization of, 183-184 screening tests and, 182-184

international surveillance of, 391

nosocomial transmission of, 180-184 Adrenal gland hematoma, 24-26

Advanced cardiac life support pediatric, 330, 447-448

training and education on, 538-539

Aging, 32-33

AIDS, see Acquired immunodeficiency syndrome Air transportation of patient, see Helicopter transport

Airway management and ventilation

bag mask ventilation and in field management, 333-336 gastric distention from, 359 cervical spinal injury and, 39-41

in CPR, see Cardiopulmonary resuscitation

electroventilation and, 561-565 facial trauma and, 39-41

field, 333-336

foreign body aspiration and, 613 intubation and, see Intubation

paramedic-conducted, 391

tracheobronchial disruption and, 427, 433 ventilators for, 664-665

Alcohol use/alcoholism albumin levels with, 89

phenytoin loading dose with, 89-92 toxicity of, 485, 497, 506, 508

Allergic reaction of carotid artery trauma, 342-343 of metal fume fever, 609-610 of needle fragments, intravascular and intracardiac, 125 of penicillin anaphylaxis, 456-458 of pelvic trauma, 618-619 of unilateral lower extremity trauma, 607-608 Altitude illness, 596-598 Aluminum-fluoride binding, 2 **Ambulances** for digoxin toxicity, 465-470 air transport v, 449-452 for metal fume fever, 609-610 cellular telephone communication between hospital and, 35-38 Anticoagulant therapy for axillary-subclavian vein thrombosis, 120-123 Amebiasis, 628-630 American Association of Poison Control Centers National Data for carotid artery thrombosis, 341, 344 toxicity of, 489, 502 Collection System, 479-518 age and sex distribution in, 480-482 **Anticonvulsants** phenytoin, see Phenytoin antidote analysis in, 483-484 for status epilepticus, 253 data review for, 481-506 toxicity of, AAPCC study of, 489-490, 502 decontamination procedures analysis in, 483-484 demographic data in. 484, 497-504 Antidepressant overdose frequency of exposure in, 484, 505 AAPCC study of, 490-492, 502 growth of, 480 circulatory shock from hypotension and, 439-442 management site in, 482-483 medical outcomes in, 483 norepinephrine for, 566-568 participating centers in, 479-481 signs and symptoms of, 566 See also specific drug reasons for exposure in, 481-482 route of exposure in, 482-483 Antihistamine poisoning, 492, 502 sites of exposure in, 480-482 Antipsychotic drug overdose. summary of fatal exposures in, 483-497 AAPCC study of, 495-496, 503-504, 512 thioridazine and, 346-349 symptom assessment in, 482-483 Antishock trousers, military, see Military antishock trousers Aminophylline poisoning, 492, 502 Amitriptyline poisoning, 490, 502 Anxiety, mental status examination for, 167 Ammonia and ammonium chloride, 485, 500, 506-507 aneurysm of Amoxapine poisoning, 490, 502 **Amphetamines** conjuctival oxygen tension monitoring of, 552-553 referred shoulder pain from, 26 choreoathetoid disorder from use of, 131-133 dissections of, cerebral ischemia from, 342 overdose of, AAPCC study of, 496, 504 traumatic injury to, echocardiography of, 23 Amylase Appendeceal rupture, 459-461 biochemistry of, 329 in ectopic pregnancy, 327-329 Appendectomy, 614-617 increased levels of, causes of, 328 **Appendicitis** with appendicolith, 614-617 acetaminophen, see Acetaminophen poisoning forms of, 614-617 hematometra v, 350-352 aspirin, see Aspirin poisoning Meckel's diverticulum v, 141-142, 161 ibuprofen, 104-107, 502 pathophysiology of, 614 morphine, 638 Appendicolith, 614-617 nalbuphine, 634-639 Arrhythmias nitrous oxide, 638 overdose of, blood pressure effect on, 439, 441 AAPCC study of, 488-489, 501-502 bradycardia, see Bradycardia conjunctival oxygen tension monitoring during, 244-246 frequency and severity of, 104-107 digoxin toxicity, 48, 465-470 screening tests for, 18-20 fibrillation, see Fibrillation prehospital use of, 638 Anaphylaxis, penicillin, 456-458 hydrofluoric acid exposure as cause of, 148-149 hyperkalemia-induced, 1 Ancylostoma braziliense infection, 462-464 hypokalemia-induced, 217 Anesthesia/anesthetics myocardial infarction and, 437 intraosseous infusion of, 353-354 phenothiazine overdose-induced, 347 local anesthetics and, 266-267 psychologic stress correlated to, 437 topical anesthetics and, 266-267 toxicity of, AAPCC study of, 489, 502 tachycardia, see Tachycardia transport considerations for, 449-452 Aneurysm Arsenic exposure aortic AAPCC study of, 500, 509 conjunctival oxygen tension monitoring of, 552-553 acute vs chronic, 603-604 referred shoulder pain from, 26 chelation therapy for, 605 intracranial, 342 diagnosis of, 604 Angina pectoris fluid and electrolyte resuscitation for, 605 referred shoulder pain from, 26 transport considerations for patient with, 435-438, 449-452 hemodialysis for, 605-606 mechanism of, 602-603 Angiography signs and symptoms of, 603-604 of abdominal injury, 621 treatment of, 604-606 of adrenal gland hematoma, 26

Arterial oxygen tension

conjunctival oxygen tension v, 11-13, 549

CPR effects on, 31-33

Arthroscopic irrigation tubing, 324-326

Artificial respiration, 561-565

Asphyxia, traumatic, 219-223

Aspiration pneumonia, 439, 441

Aspirin poisoning

AAPCC study of, 448-489, 501-502, 511

frequency and severity of, 104-107

screening tests for, 18, 19

Atrial fibrillation, see Fibrillation, atrial

Atrial tachycardia, see Tachycardia, supraventricular

Atrioventricular block

bundle branch block and, 473-474

digoxin toxicity and, 48

first degree, ECG of, 48

Wenckebach, 472-473

Axillary vein thrombosis, 120-123

Bag mask ventilation

for field airway management, 333-336

gastric distention from, 359

Barbiturate poisoning, 495, 503

Barium enema

of diaphragmatic hernia, 595

of Meckel's diverticulum, 139-140, 160, 162-163

Batrow unit for artificial respiration, 563-564

Beck's triad, 22

Bicarbonate

for fluoride toxicity, 149

lactic acidosis and, 135

for ventricular fibrillation, 113-119, 152

Bites, poisonous, 485, 498

Bladder injuries, 621-622

Blood gas analysis during CPR for cardiac arrest, 580-583, 676

Blood loss, see Hemorrhage

Blood pressure

conjunctival oxygen tension measurements and, 11-13

decreased, see Hypotension

increased, 346, 349

thoracic trauma, effect of, 21-22

Blood tests

AIDS screening, 182-184

drug overdose screening, 14-20

ectopic pregnancy screening, 4-6

Bochdalek hernia, 594-595

Bone marrow infusion

contraindications to 354

of muscle relaxants, 353-354

pediatric, 330-332, 577-579

Boric acid poisoning, 209-213

Boron-fluoride binding, 2

Boron tribromide burns, 507

Bradycardia

digoxin toxicity, 48

hypothermia-induced, 584, 588

sinus, ECG of, 48, 472-473

Brain injury/disorders

aging and, 32

CPR-induced, see Cardiopulmonary resuscitation, cerebral injury

cranial burr hole decompression for, see Cranial burr hole

decompression

hematoma and, 640-646, 678

ischemic, 31

aging and, 32-33

carotid artery thrombosis and, 341-343

decerebrate posturing and, 31-32

differential diagnosis of, 342-343

metabolic effects of, 32, 151

lacerations and, 641

mental status examination for, see Mental status examination

seizures and, see Seizures

Brainstem injury, 641-643

Bronchial rupture, 427-433

Bundle branch block, ECG of, 473-474

Buprenorphine, 638

Burns, chemical, see Chemical burns

Cactus spine injuries, 362-369

long spines in, 362

medium spines in, 362-366

small and very small spines in, 366-369

Cadmium toxicity, 610

Calcium

aging effects on, 32

in CPR-mediated cerebral injury, 151-154, 572-573

digoxin effect on, 466-467

in fluoride poisoning, 1-3, 144-149

Calcium channel blockers, 152-153

Carbon monoxide poisoning

AAPCC study of, 486-487, 500

altitude illness v, 596-598

mechanism of, 597

Cardiac arrest

blood gas analysis during CPR for, 580-583

conjunctival oxygen tension monitoring of, 549-554

of elderly patient, CPR for, 31-34

hypothermia-induced, 475-478

neurologic recovery after, 33 pediatric, intravascular access for, 577-579

resuscitation methods for

CPR, see Cardiopulmonary resuscitation

Israeli study of, 319-323

ventricular fibrillation and, 108-119

Cardiac output

CPR-mediated, 580-583

pH during, arterial and venous, 580-581

transthoracic electrical bioimpedance monitoring of, 337-340

Cardiac pacing

helicopter transport interference of, 236-240

methods of 237

pacemakers for, see Pacemakers

transcutaneous, 78-79

Cardiac tamponade, 21-23

Cardiopulmonary bypass

for cerebral CPR resuscitation, 668-669

for rewarming of hypothermic patient, 475, 477-478

Cardiopulmonary resuscitation

ACLS and, see Advanced cardiac life support

blood gas analysis during, 580-583, 676

by bystander, effect of, 319, 322

cerebral injury from, 151-154

deferoxamine therapy for, 569-575, 669

DNA damage and, 574

in elderly patient, 31-34

lipid peroxidation in, 31-33, 569-575

pathophysiology of, 151-152, 666-667

preventive technique modifications for, 667-668

reperfusion failure and, 152

superoxide dismutase therapy for, 569-575, 669

therapeutic implications for, 152-154, 667-672

tissue metals in, 572-573

complications of, 358

conjunctival oxygen tension monitoring during, 551, 554

of elderly patient, 31-34

for foreign body aspiration, 613

for hypothermia, 475-478

pneumoperitoneum from, 358-361

postresuscitation syndrome of, 151

prognostic indicators for, 666

successful, factors associated with, 319-322

timing of, importance of, 319-323

Cardiovascular drugs

digoxin, see Digoxin

toxicity of, AAPCC study of, 493-494, 503

Cardioversion

defibrillation and, see Defibrillation

for paroxysmal supraventricular tachycardia, 558-560

for ventricular tachycardia, 48

Carotid artery, internal

balloon occlusion of, 341, 344

injury to, delayed hemiparesis following, 341-344

Carotid sinus massage, 555-560

Catecholamines

aging effects on, 32-33

dopamine, 566-568

epinephrine, see Epinephrine

helicopter transport effect on levels of, 435-438

norepinephrine, see Norepinephrine

stress correlation to, 436-437

Catheterization

arthroscopic irrigation tubing used with catheters, 324-326

credentialing issues regarding, 279-281

fragmentation of catheters, foreign body emboli from, 124-125

paroxysmal supraventricular tachycardia from, 555

pediatric, 577-579

pulmonary artery, 580-583

subintimal dissection from, 607-608

venous distention device for, 224-227

Cellular telephones, 35-38

Central venipuncture, 27-30

Central venous pressure

pericardial tamponade and, 22

traumatic asphyxia and, 222

Cerebellar fits, 175-176

Cerebral edema, high altitude, 598

Cerebral ischemia, see Brain injury/disorders, ischemic

Cerebrospinal fluid rhinorrhea, 40

Cervical abscess, 27, 29

Cervical spinal injury

computed tomography of, 268, 272, 313

conjunctival oxygen tension monitoring of, 552

differential diagnosis of, 312-313

nasotracheal intubation for, 39-41

prevertebral soft tissue space in, 268-272, 312-313

radiography of, 268-272, 312-313

Chemical burns

from hydrofluoric acid exposure, 146-148

incidence of, 355

from potassium exposure, 355-357

from sodium exposure, 355-357

thermal burns v, 355

Chest pain

from angina pectoris, 26

from crack smoking, 241-243

from metal fume fever, 610

Chest trauma, 521

asphyxia from, 219-223

pericardial effusion from, echocardiography of, 21-23

tracheobronchial rupture from 427-434

Children

analgesic poisoning in, 104-107

Bochdalek hernia of, 594-595

cardiac arrest of, intravascular access for, 577-579

coin ingestion by, 378-381

critical care for, 397-408

endotracheal intubation of, 579

epiglottitis of, 228-231

foreign body aspiration by, 611-613

intraosseous infusions of, 330-332, 353-354

liver abscess of, amebic, 629

maprotiline poisoning of, 247-249

Meckel's diverticulum of, 137-142

surveillance system for injuries of, 375-377

vascular access in, 330, 577-579

Chloroform poisoning, 507

Chloroquine poisoning, 512 Chopart's joint dislocation, 599-601

Choreoathetoid disorder

amphetamine-like compounds causing, 131-133

examination for, 166

Cleaning substances, toxicity of, 485-486, 498-499

Cocaine abuse

lactic acidosis from, 135

pneumomediastinum from, 241-243

toxicity of, AAPCC study of, 496, 504

Cognitive function, 167-168

Coin ingestion, 378-381

Cold and cough preparations, 494, 503

Communication

cellular telephones v medical radio/microwave equipment, 35-38

in on-site industrial accident management, 263-264

Computed tomography

of abdominal injury, 621

of adrenal gland hematoma, 25-26

of carotid artery trauma, 343

of cervical spinal injury, 268, 272, 313

of decerebrate posturing, 174-176

of diaphragmatic hernia, 595

of intracranial hematoma, 640-641, 643, 678

of liver abscess, amebic, 628-630

of needle fragments, intracardiac and intravascular, 27, 29, 125

of pelvic abscess, 460

of pelvic fractures, 624-625

of tracheostomy, 40

Congenital anomalies diaphragmatic hernia, 594-595

Meckel's diverticulum, see Meckel's diverticulum

Conjunctival index, 11-13, 549-554

Conjunctival oxygen tension monitoring

of aortic aneurysm, 552-553

blood loss, relationship to, 11-13

of cardiac arrest, 549-554

of CPR, 551, 554 of hemorrhagic hypovolemia, 549-554

of multiple trauma injury, 552-554

of myocardial infarction, 549, 552-553

of pulmonary edema, 552-553

ventricular arrhythmias, relationship to, 244-246

Contrast media diagnostic tests

for pneumoperitoneum, 358-361

for unilateral lower extremity trauma, 607-608

Convulsions, see Seizures

Copper levels, metal fume fever and, 609-610

Cosmetic products, toxicity of, 486, 499

Cost analyses

of cellular telephones for emergency medical communications, 35-38

of defibrillation by emergency medical technicians, 108-112 of observation units of emergency departments, 49-50, 93-103 of screening tests for ectopic pregnancy, 4-6

CPR, see Cardiopulmonary resuscitation

Crack, 241-243

Cranial burr hole decompression, 640-646, 678

alternative approaches to, 643

rationale for, 642, 678

safety of, 643

sites of burr hole placement for, 644

technique of, 644-645

Cranial nerves, cephalic tetanus involvement of, 128-130

Credentialing issues, 278-281, 314

Creeping eruption, 462-464

Cricothyrotomy

credentialing issues regarding, 279

for field airway management, 333, 335

for head and neck injury, 40

Crohn's disease, 142

Culdocentesis, ectopic pregnancy, 4-6, 327

Cultural attitudes towards health care, 390-391

Cutaneous larva migrans, 462-464

Cyanide poisoning, 485, 498

Decerebrate posturing

cerebral ischemia and, 31-32

decerebrate rigidity v, 176

seizure activity v, 173-178

Deferoxamine, 569-576, 669

Defibrillation

drug therapy v, 113-119

EMT-conducted, 282-286

automatic and semiautomatic defibrillators for, 283-284

cost effectiveness of, 108-112

downtime in, 285

follow-up treatment for, 285-286

future of, 285

Israeli study of, 319-322

manual, 282-283

medical control of programs for, 284-285

epinephrine effect on, 117

initial treatment with v, 113-119

postcountershock rhythms following, 113-119

refibrillation after, 117-118

Depression, mental status examination for, 167

Desipramine poisoning, 490-491, 502, 511

Developing country health care, 390-392

Diagnosis-related group (DRG) system of reimbursement

charge differences in, 100

cost shifting in, 100

disadvantages of, 101-102

Diaphragm

adrenal hematoma irritation of, 24-26

in electroventilation, 561-565

hernia of, 594-595

referred shoulder pain from injury to, 24

rupture of, 621

Diazepam

for status epilepticus, 253

toxicity of, AAPCC study of, 495, 514

Digoxin

for paroxysmal supraventricular tachycardia, 558-559

overdose of

AAPCC study of, 513

antibody fragments for treatment of, 465-470

ECG of, 47-48, 466-468

Disaster medicine, 392

Disseminated intravascular coagulation, 455

Diverticulitis, 139-140, 157, 161

Dopamine

mechanism of action of, 567

for tricyclic antidepressant overdose, 566-568

Doxepin poisoning, 491, 502

Drowning accidents, 475

Drug abuse

cocaine, see Cocaine abuse

crack, 241-243

intravenous

central embolization of needle fragments from, 27-30, 124-127

vascular access with, complications of, 224, 227

Drug overdose

AAPCC study of, 488-497, 501-515

case studies of, 507-515

demographic profile for, 501-505

summary of fatalities, 488-497

screening tests for, 14-20

utilization of, 16-18

yield of, 18-20

See also specific drug

Duodenal hematoma, 351

Dyskinesia

amphetamine-like compounds causing, 133

examination for, 166

phenothiazine-induced, 347

Echocardiography

pericardial effusion, 21-23

thoracic vascular injury, 23

Ecosystem surveillance, 391

Ectopic pregnancy

amylase levels in, 327-329

culdocentesis of, 327

human chorionic gonadotropin in, diagnostic assay for, 4-6

incidence of, 327

laparoscopy of, 327

referred shoulder pain from, 24

sonography of, 327

Edema

cerebral, 598

pulmonary, see Pulmonary edema

Educational programs

academic reorganization of, 416-423

in developing countries v US, 392

EMT-defibrillation, 284-286

faculty development for, 540-544

residency training and, 415-416

Elderly patients

cardiac arrest of, CPR for, 31-34

penicillin anaphylaxis in, 456-458

Electric lung, 563

Electrical and lightning injuries, 298-299

Electrocardiography

of atrial fibrillation, 47

with bundle branch block, 473

with ventricular hypertrophy, 632-633

of bichambered pacemaker, 384

of digoxin toxicity, 47-48, 466-468

of intracranial hemorrhage, 631, 633 of normal sinus rhythm, 473-474

of pacemaker monitoring, 632-633

helicopter transport effects, 236-240 radiotherapy effects, 591-592 of rhythm strips from radiotelemetry, 632-633 of sinus bradycardia, 472-473 of sinus tachycardia, 631 of supraventricular tachycardia, 382-384 of ventricular tachycardia, 48 of wide-complex tachycardias, 273-275 Electroencephalography of decerebrate posturing, 175 of nonconvulsive status epilepticus, 250-253 Electroventilation, 561-565 Emboli axillary-subclavian vein thrombosis as cause of, 122 cerebral, 341-343 needle fragmentation from IV drug abuse as cause of, 27-30, 124-127 pulmonary, see Pulmonary emboli Emergency department observation units DRG coding for, 93 disadvantages of, 101-102 prospective payment based on, 96, 100 advantages of, 49 comparative analysis of acute hospital care v, 93-103 admission criteria in, 95 charge calculations in, 96 charge differences in, 98-100 collection rates in, 101 complications of observation in, 98 cost calculations in, 97 cost differences in, 100 cost shifting in, 100 definition of observable patient in, 94-95 financial calculations in, 95-97 profit calculations in, 97 prospective payment differences in, 100 reimbursement calculations in, 96 reimbursement differences in, 97-98 statistical analysis in, 97 cost analyses of, 49-50, 93-103 cost reimbursement system for, 93 DRG coding, effect of, 100 financial calculations for, 95-96 historical background of, 49 Medicare benefits and, 49-50, 93 prospective payment system for, 93 DRG coding, effect of, 100 financial calculations for, 96 purpose of, 49, 50 third-party reimbursement for, 102 **Emergency medical technicians** defibrillation by, see Defibrillation, EMT-conducted of Israeli emergency medical service system, 319-322 onscene time analysis for, 448 **Emergency medicine** definition of, 414 in developing countries, 390-392 journal articles on, trends in, 647-650 legislative issues regarding, 539-540 **Emergency physician** credentialing of, 278-281, 314

Israeli physicians in mobile intensive care units, 319-323

stress-related morbidity rates for, 370-374

Encephalopathy, postischemic, 31-34, 151-154

psychological adaptation of, 370-374 Emphysema, mediastinal and subcutaneous, 429, 431

EMT, see Emergency medical technicians

Endobronchial intubation, 427, 433 Endotracheal intubation esophageal intubation during, inadvertent, 178-179 for field airway management, 333-336 pediatric, drug administration via, 579 tracheobronchial disruption and, 427, 433 Envenomations, 485, 498 Environmental medicine, 188-195, 290-299 Epididymitis, testicular torsion and, 42-43 Epiglottitis, 228-231 Epinephrine cardiac effects of, 436 defibrillation, effect on, 117 helicopter transport effect on cardiac patient levels of, 435-438 hypokalemia from, 217 mechanism of action of, 116-117 for penicillin anaphylaxis, 457 for ventricular fibrillation, 113-119, 152 Epistaxis, 471 Epstein-Barr virus, 453-455 Esophageal obturator airway, 179 Esophagus coin ingestion with retention in, 378-381 endotracheal tube placement in, inadvertent, 178-179 Eye injury and disease, 145

Facial fractures airway management for, 39-41 cephalic tetanus from, 128 Fallopian tubes abscess of, 459 amylase synthesis in, 327-329 Femoral vein blood gas analysis via sampling of, 580-583 pediatric, intravascular access via, 578-579 Ferrous sulfate toxicity, 494, 513-514 Fibrillation bundle branch block and, 473 cerebral emboli and, 342-343 digoxin for, 559 ECG of, 47, 473, 632-633 hypothermia-induced, 477

ECG of, 47, 473, 632-633 hypothermia-induced, 477 synchronized cardioversion for, 559 ventricular hypertrophy and, 632-633 ventricular tachycardia and, 275-276 Wolff-Parkinson-White syndrome and, 27 ventricular

Wolff-Parkinson-White syndrome and, 276 advanced cardiac life support for, 113-119, 152 amplitude of, 113 antishock trouser use precipitating, 584-585, 588-589 blood pressure effect on, 441 conjunctival oxygen tension monitoring during, 244-246 defibrillation for, see Defibrillation digoxin overdose and, 465-470 drug therapy for, 113-119, 152 hydrofluoric acid exposure as cause of, 148-149 hypokalemia and, 217 hypothermia-induced, 475, 477 initial treatment of, 113-119 stress and, 437 sudden cardiac death from, 282 vagal maneuver-induced, 559 Fluid replacement

arthroscopic irrigation tubing v urologic tubing for, 324-326 paramedic-conducted, 391

Heimlich maneuver, 613 Fluoride poisoning calcium in, role of, 1-3 Helicopter transport hydrofluoric acid exposure and, 143-149 of cardiac patients, 449-452 catecholamine levels, effect on, 435-438 hyperkalemia from, 1-3 pacing hazards for, 236-240 signs and symptoms of, 2 field airway management during, 333-336 Fluoroscopy ground transport v, 449-452 of foreign body aspiration, 613 of hemoperitoneum, 359 Hematoma adrenal gland, 24-26 of needle fragments, intravascular and intracardiac, 29, 125 Foot fracture and dislocation, 599-601 duodenal, 351 intracranial, 640-646, 678 Foreign bodies pelvic, 618-619, 621 aspiration of, 611-613 retroperitoneal, 618-619, 621 esophageal, 378-381 gastrointestinal, 380 Hematometra, 350-352 Hemoperitoneum intracardiac CPR-induced, 359 needle fragments and, 27-30, 124-127 transthoracic electrical bioimpedence of, 338 types of, 124 rectal, toothbrush case, 385-389 Hemorrhage abdominal vaginal, 621 Fractures and dislocations hematometra, 350-352 hemoperitoneum, 338, 359 midtarsal joint, 599-601 pelvic, see Pelvic fractures cardiopulmonary bypass, 477 sacral, 623-624 conjunctival oxygen tension/conjunctival index of, 11-13 gastrointestinal, 139, 157-161 Gallbladder disease, 24 hematoma, see Hematoma hypothermia-induced, 584, 588 Gasoline fume toxicity, 509 Gastric drug screening tests, 14-20 hypovolemia from, 11-13, 559-564 intracranial, 631, 633 Gastroenteritis Meckel's diverticulum v, 141 pelvic, 618-620 pelvic abscess after, 459-461 retroperitoneal, 618 Gastrointestinal disorders subarachnoid, 633 critical care medicine for, 657-658 thoracic hemothorax, 427-433 Crohn's disease and, 142 traumatic asphyxia and, 219-222 duodenal hematoma and, 351 gastroenteritis and, 141, 459-461 rectal, 139, 161 hydrofluoric acid ingestion as cause of, 143-144 Hernias Meckel's diverticulum, see Meckel's diverticulum Bochdalek, 594-595 Meckel's diverticulum and, 139, 159-160 peptic and duodenal ulcer and, 24 Heroin poisoning, 496-497, 504 Geriatric patients, see Elderly patients Herpes zoster, 26 Glutethimide poisoning, 495 Hofmann device for artificial respiration, 563-564 Haemophilus influenzae infection, epiglottitis and, 228-231 Hair removal for scalp laceration repair, 7-10 Hydrocarbon toxicity, 487, 500 Hydrofluoric acid, 143-149 **Hallucinations** AAP€C study of, 508 hypothermia-induced, 476 chemical properties of, 143 mental status examination for, 167 Haloperidol exposure to, 143-149 dermal, 146-148 for choreoathetoid disorder, 133 overdose of, AAPCC study of, 495, 514 epidemiology of, 143 historical background of, 143 Head injury ingestion, 143-144 airway management for, 39-41, 333-336 brain injury and, see Brain injury/disorders inhalation, 144-145 local toxicity from, 143-148 carotid artery trauma with, 341-344 cranial burr hole decompression for, see Cranial burr hole ocular, 145-146 systemic toxicity from, 144, 148-149 decompression

pediatric, 397-401 Heart disease angina pectoris, see Angina pectoris arrhythmia, see Arrhythmias cardiac arrest, see Cardiac arrest critical care medicine for, 654-656 myocardial infarction, see Myocardial infarction sudden cardiac death, see Sudden cardiac death Heart injuries needle fragment embolization and, 27-30, 124 pericardial effusion from, echocardiography of, 21-23 Heavy metal poisoning, 500 692

Human chorionic gonadotropin, ectopic pregnancy and, 4-6 Hyperglycemia, lactic acidosis and, 135 Hyperkalemia from digoxin poisoning, 467-469 from fluoride poisoning, 1-3, 149 lactic acidosis and, 135 Hypertension, thioridazone overdose-induced, 346, 349 Hyperthermia critical care for, 293-296 thioridazone overdose-induced, 346, 349 Hypocalcemia fluoride overdose and, 1-2, 149 from hydrofluoric acid exposure, 149

Hypoglycemia, lactic acidosis and, 135 Hypokalemia epinephrine-induced, 217

hypothermia-induced, 477

theophylline poisoning-induced, 214-218

ventricular fibrillation and, 217

Hypotension

from antidepressant overdose, 439-442

from hypothermia

antishock trousers for, 584-590 mechanism of, 584, 588

pericardial effusion and, 22-23

from phenothiazine overdose, 347

rhabdomyolysis and, 455

from tricyclic antidepressant overdose, 566-568

Hypothermia, 290-293

antishock trousers for, 584-590

cardiac arrest from, 475-478

definition of, 476

pH during, arterial and venous, 581

phenothiazine-induced, 347-348

for postischemic encephalopathy treatment, 154

resuscitative measures for, 475-478

rewarming methods for, 477-478

signs and symptoms of, 476-477

Hypovolemia, hemorrhagic

conjunctival oxygen tension monitoring of, 11-13, 549-554

hypothermia-induced, 584, 588

latrogenic injury, 658-659

Ibuprofen poisoning

AAPCC study of, 502 frequency and severity of, 104-107

Iliac artery contrast media injection, 607-608

Imipramine poisoning, 491-492, 502, 512 Impedance plethysmography, 122

Industrial accident

Chernobyl nuclear disaster, 391

on-site hospital personnel for, 260-265

advantages and disadvantages of, 264

communication difficulties for, 263-264

consolidation and distribution of patients by, 263

fire and police officials, interaction with, 262-264

medical procedures performed by, 263-264

patient transport issues for, 263 Infection, wound, see Wound infections

Infectious mononucleosis, 453-455

inflammatory bowel disease, 142

Injection technique, two-finger confusion method, 266-267

Intelligence, 167-168

Intestinal obstruction, Meckel's diverticulum and, 139, 157-160

Intracranial pressure, increased

altitude illness and, 598

carbon monoxide poisoning and, 598

decerebrate posturing and, 174-176

hematoma and, 641

seizure activity and, 174-176

Intraosseous infusion

contraindications to, 354

of muscle relaxants, 353-354

pediatric, 330-332, 577-579

Intravenous drug abuse

central embolization of needle fragments from

central venipuncture and, 27-30

peripheral venipuncture and, 124-127

vascular access with, complications of, 224, 227

Intravenous techniques, see Vascular access

Intubation

credentialing issues regarding, 279-280

endotracheal, see Endotracheal intubation

esophageal, inadvertent, 178-179

nasotracheal, see Nasotracheal intubation

onscene time analysis for, 443, 447-448

transport considerations with, 451

Intussussception, Meckel's diverticulum and, 141, 159-160

Ipecac syrup, 483-484, 494, 514

Israeli emergency medical service system, 319-323

Journal articles, trends in, 647-650, 677-678

Kaolin/pectin, 494, 514

Ketoacidosis

diabetic, 506

lactic acidosis v. 135

Kidney failure

from arsenic poisoning, 605-606

rhabdomyolysis and, 455

Kidney injuries, 621

Lacerations

brain tissue, 641

facial, 128

gastric, 359

perineal, 619

scalp, repair of, 7-10

vaginal, 620-621

Lactic acidosis causes of, 135

exertional, 134-136

hypothermia-induced, 477

ketoacidosis v, 135

metabolic acidosis from, 134-136

signs and symptoms of, 135

treatment of, 135

Lidocaine

fluoride-induced hyperkalemia, effect on, 2-3

for local anesthesia, 267

toxicity of, 493

for ventricular tachycardia, 48, 152, 276

Lipid peroxidation

aging effects and, 33

in CPR-mediated cerebral injury, 31-33, 151

deferoxamine effect on, 569-575, 669

mechanism of, 573-575

superoxide dismutase effect on, 569-575, 669

thiobarbituric acid assay of, 571, 573-574

mechanism of, 573-575

Lithium poisoning, 494, 502

Liver disease

abscess

amebic, 628-630

referred shoulder pain from, 24

phenytoin loading dose with, 89-92

Local anesthetics

lidocaine, 267

painless injection via two-finger confusion technique, 266-267

Loeffler's syndrome, 463

Lumbar disc herniation, 624

Malrotation of gut, 141

Maprotiline poisoning, 247-249

MAST see Military antishock trousers

Meckel's diverticulum, 157-163

anatomy and embryology of, 138, 158

complications of, 137, 139-140 diagnosis of, 140-141, 162-163 differential diagnosis of, 141-142 epidemiology of, 137-138, 158 gastrointestinal bleeding associated with, 139, 157-161 heterotopic tissue of, 138-139 historical background of, 138 inflammation associated with, 139-140, 157, 161 intestinal obstruction associated with, 139, 157-160 mortality rates for, 161 surgical therapy for, 140-141 tumors associated with, 139, 160 volvulus of, 137-142, 159 Mental status examination, 165-171 abbreviated form of, 171 attitude observations in, 166 behavioral observations in, 166 historical background of, 165 insight/judgment evaluation in .167 intelligence evaluation in, 167-168 mood/affect evaluation in, 167 physical appearance assessment in, 166 purpose of, 168-171 sensorium evaluation in, 167-168 speech pattern evaluation in, 166 thought disorder evaluation in, 166 Mercury intoxication, 605-606 Metabolic acidosis exertional hyperlactemia and, 134-136 hydrofluoric acid exposure and, 149 hypothermia and, 475, 477-478, 588 Metal fume fever, 609-610 Methadone toxicity, 511 Midtarsal joint dislocation and fracture, 599-601 Military antishock trousers for hypothermic cardiovascular depression, 584-590 for pelvic fracture hemorrhage, 618 Monoamine oxidase inhibitor poisoning, 492, 502, 512 Mononucleosis, infectious, 453-455 Morgagni hernia, 595 Morphine, 638 Motor vehicle accidents caotid artery trauma from 341, 343 mortality rates for, 391, 392 persistent shoulder pain after, 24-26 traumatic asphyxia from, 219-222 Movement disorders choreoathetoid, 131-133, 166 dyskinesia, 133, 166, 347 examination for, 166 Muscle relaxants field airway management with, 333 intraosseous infusion of, 353-354 toxicity of, AAPCC study of, 495, 503 Myocardial infarction conjunctival oxygen tension monitoring of, 549, 552-553 from crack smoking, 241 incidence of, 113 mortality rates for, 113 of elderly patient, 31-34 sudden cardiac death from, 282 transport considerations for patient with, 435-438, 449-452

transport considerations for patic ventricular arrhythmias with, 437 Nalbuphine analgesia, 634-639 Narcotic analgesic toxicity, 502 Nasotracheal intubation

contraindications to, 40 craniofacial dislocation and, 39-41 for field airway management, 333 lighted stylet for, 39-41 Neck injury, 525-526 airway management for, 39-41 carotid artery trauma with, 342 computed tomography of, 268, 272, 313 differential diagnosis of, 312-313 pediatric, 401 prevertebral soft tissue space in, 268-272, 312-313 radiography of, 268-272, 312-313 Neck pain, 24-26 Neck vein distention, 22-23 Nitrous oxide, 638 Norepinephrine cardiac effects of, 436 helicopter transport effect on levels of, 435-438 for tricyclic antidepressant overdose, 566-568 Nortriptyline poisoning, 492, 502 Nosebleeds, 471 Noseclips, 471

Observation units, emergency department, see Emergency department observation units Omental infarction, 351 Osteomyelitis, intraosseous infusion-induced, 354 Ovarian torsion, 351 Oxalic acid poisoning, 507 Oxygen free radicals CPR-mediated hyperemia/hyperoxia and, 33, 151-152 in DNA damage, 574 in lipid peroxidation, 569, 573-574 Oxygen tensions arterial conjunctival oxygen tension v, 11-13, 549 CPR effects on, 31-33 blood loss monitoring by measurements of, 11-13 conjunctival, see Conjunctival oxygen tension monitoring

Pacemakers
bichambered v unichambered, 384
credentialing issues regarding insertion of, 279
demand, 237-239
ectopic, ECG of, 48
electromagnetic interference of, 236-240
radiation therapy, effect of, 591-593
Pacing, see Cardiac pacing
Paget-Schrotter syndrome, 120-123
Pain
abdominal, see Abdominal pain
analgesics for, see Analgesics
chest
from angina pectoris, 26
from crack smoking, 241-243

neck, 24-26
referred, abdominal injury-induced, 24-26
scrotal, 42
shoulder, 24-26, 121-122
Paint products, toxicity of, 487, 501
Pancreatitis, 24
Paramedics

from metal fume fever, 610

defibrillation procedures conducted by, 108-112, 282-286 functions of, 391 of Israeli emergency medical service system, 319-322

management decisions by, analysis of, 443-448 onscene time analysis for, 443-448

Parasitic infections, cutaneous larva migrans and, 462-464

Pediatric patients, see Children

Pelvic abscess

pelvic inflammatory disease and, 549 perineal/rectal injury and, 619 peritonitis and, 459-461

Pelvic fractures

abdominal injuries associated with, 621

butterfly, 623 complications of, 618

computed tomography of, 624-625

definition of, 618 incidence of, 618

magnetic resonance imaging of, 624

mortality rates for, 618

neurologic injuries associated with, 623-624

open v closed, 618

perineal injuries associated with, 619-620

radiography of, 623-624

rectal injuries associated with, 619-620

straddle, 623

treatment of, 618

hemorrhage control in, 618-619 skeletal fixation for, 624-626

urologic injuries associated with, 621-623

vaginal injuries associated with, 620-621

Pelvic inflammatory disease, 459 Pelvic trauma, 618-627

abdominal injuries from, 621

morbidity and mortality from, 618

pelvic fractures from, see Pelvic fractures

perineal injuries from, 619-620 rectal injuries from, 619-620

urologic injuries from, 621-623 vaginal injuries from, 620-621

Penicillin anaphylaxis, 456-458

Pentobarbital poisoning, 495

Peptic or duodenal ulcer, 24 Pericardial effusion

echocardiography of, 21-23

signs and symptoms of, 22

Pericardiocentesis, 22

Perineal injuries, 619-620

Peritoneal lavage

for abdominal injury diagnosis, 621

for pneumoperitoneum diagnosis, 358-361

for rewarming of hypothermic patient, 477

Peritonitis

bladder injuries causing, 622

pelvic abscess after, 459-461

Pesticide toxicity, 71, 232-235, 487, 500-501, 509-510

Pharyngitis, streptococcal, 306-311

Phenelzine poisoning, 492, 512 Phenobarbital overdose

AAPCC study of, 495, 507

screening tests for, 18 Phenothiazine toxicity, 346-349

Phenytoin

intravenous loading of

alcoholism, effect of, 89-92

cardiopulmonary arrest after, 255-258

complications of, 256, 258

concentration of drug as factor in, 256-258

infusion rate as factor in, 255-258

vehicle for, 256

overdose of, screening tests for, 18

for status epilepticus, 253, 256

Phlebotomy, 11-13

Phobias, mental status examination for, 166

Phrenic nerve

in abdominal injury-induced irritation of diaphragm, 26

in artificial respiration, 562-563

Physician, emergency, see Emergency physician

Pine oil poisoning, 507-508

Plant toxicity, 484, 487, 501, 505, 510

Plantar dislocation of midtarsal joint, 599-601

Plethysmography, 122

Plumber's itch, 462-464

Pneumatic antishock garments, 443, 447 See also Military antishock trousers

Pneumomediastinum, 241-243

Pneumoperitoneum

causes of, 358-359

CPR-induced, 358-361

Pneumothorax

from central venipuncture, 27

from crack smoking, 242

referred shoulder pain from, 26

from tracheobronchial rupture, 427, 433

transthoracic electrical bioimpedance of, 339-340

Poison control centers, 391-392, 479-518 Political attitudes towards health care, 390-391

Potassium

antishock trousers, effect of, 586-589

in CPR-mediated cerebral injury, 572-573

decreased levels of

epinephrine-induced, 217

hypothermia-induced, 477

theophylline overdose-induced, 214-218

ventricular fibrillation and, 217

digoxin effect on, 466-467

increased blood levels of

digoxin poisoning and, 467-469

fluoride poisoning and, 1-3, 149

lactic acidosis and, 135

toxic exposure to, 355-357, 494, 503

Pregnancy, ectopic, see Ectopic pregnancy

Procainamide

toxicity of, AAPCC study of, 493

for ventricular tachycardia, 48, 276

for wide-complex tachycardias, 276

Proparacaine, 266-267

Propranolol poisoning, 493, 513

Psychiatric disorders, mental status examination for, 166-171

Psychosis, mental status examination for, 166 Pulmonary artery catheterization, 580-583

Pulmonary edema

blood pressure effect on, 439, 441

conjunctival oxygen tension monitoring of, 552-553

high altitude, 598

metal fume fever, 610

transthoracic electrical bioimpedance of, 338-339

Pulmonary emboli

axillary-subclavian vein thrombosis causing, 122

from cutaneous larva migrans, 463

needle fragmentation from IV drug abuse as cause of, 27-30, 124-127

Pyrethrin poisoning, 232-235

Quinidine

fluoride-induced hyperkalemia, effect on, 1-3

toxicity of, AAPCC study of, 493-494

Radiation therapy, pacemaker failure due to, 591-593

Radio communications, 35-38

Radiography

of adrenal gland hematoma, 24-26

of appendicitis, 351

of appendicoliths, 615-616

of cervical spinal injury, 268-272, 312-313

of coin ingestion, 378-380

of diaphragmatic hernia, 594-595

of foreign body aspiration, 611-613

of Meckel's diverticulum, 140

of metal fume fever, 610

of needle fragments, intravascular and intracardiac, 27-30, 125-127

of pelvic fractures, 623-624

of plantar dislocation of midtarsal joint, 599-601

of pneumomediastinum from crack smoking, 242-243

of pneumoperitoneum, 359

of rectal foreign body, 387

Radionuclide scanning

of Meckel's diverticulum, 140, 162-163

of testicular torsion, 43

Reactive extensor postural synergy, 176

Rectal bleeding, 139, 161

Rectal foreign bodies, 385-389

Rectal injuries, 619-620

Regionalization of trauma care, 391

Renal failure

from arsenic poisoning, 605-606

rhabdomyolysis and, 455

Research

scientific articles on, 647-650, 677-678

statistical analysis of, see Statistical analyses

trends in, 647-650

Rhabdomyolysis, 453-455

Rib fractures

blood gas analysis of, 429-430, 432

tracheobronchial injury and, 427-433

Sacral fractures, 623-624

Sandworm disease, 462-464

Saphenous vein, intravascular access via, 578-579

Scalp lacerations, 7-10

Scientific articles, trends in, 647-650, 677-678

Scrotal pain, 42

Sedative poisoning, 495-496, 503-504

Seizures

alcoholism and, 89-92

blood pressure effect on, 439-441

causes of, 166

crack smoking and, 241

decerebrate posturing v, 173-178

maprotiline poisoning and, 247-249

status epilepticus, see Status epilepticus

tonic, 175-176

traumatic asphyxia and, 219

Sexually transmitted diseases, 460-461

Shoulder pain

abdominal injury as cause of, 24-26

effort-induced deep venous thrombosis and, 121-122

Sigmoidoscopy, 619, 621

Skeletal fixation of pelvic fractures, 624-626

Skin diseases and disorders

chemical burns, see Chemical burns

cutaneous larva migrans, 462-464

Skin tests

for digoxin antibody hypersensitivity, 468

for penicillin allergy, 456-458

Skulls, burr hole into, see Cranial burr hole decompression

Smoke inhalation, 508-509

Snake bites, 485, 498

Sodium

in CPR-mediated cerebral injury, 572-573

digoxin effect on, 466-467

toxic exposure to, 355, 357, 494, 503, 514

Sodium bicarbonate

for fluoride toxicity, 149

for ventricular fibrillation, 113-119, 152

Sodium hydroxide poisoning, 507

Spinal cord

cervical injury to, see Cervical spinal injury

tumor of, 26

Spleen

ectopic, 351

rupture of

conjunctival oxygen tension monitoring of, 552

referred shoulder pain from, 24

Splint placement, 447

Stab wound, 21-23

Statistical anlayses, 52-61

of antidepressant overdose-induced hypotension, 440

Bayesian analysis in, 60

of bioequivalence, 59

central limit theorem in, 54-55

confidence intervals in, 59-60

data dredging in, 61

of defibrillation v drug therapy for ventricular fibrillation, 114

dichotomous populations in, 55

Fischer's exact test in, 59

Gaussian curve in, 52

hypothesis testing in, 55-59 alternatives to, 59-60

classic, 56-58

parametric v nonparametric tests for, 58-59

Mann-Whitney test in, 59

multiple looks in, 60-61

normal distributions in, 52

of observation units' cost effectiveness, 97

parametric v nonparametric tests in, 58-59

Pitman permutation in, 59 post hoc tests in, 60

posterior probabilities in, 60

purpose of, 52

sampling of population in, 52-54

significance of results in, 60

t test in, 58-59

of venous distention device usage, 226

Wilcoxon rank sum in, 59

Status epilepticus

decerebrate posturing v, 176

nonconvulsive, 250-253

clinical presentation of, 250-251

differential diagnosis of, 252-253

electroencephalographic characteristics of, 251

risk factors predisposing to, 251

treatment of, 253

Stomach

adrenal hematoma attachment to, 24-26

CPR-induced distention of, 359

drug screening tests using fluid of, 14-20

laceration of, 359

Streptococcal pharyngitis, 306-311 catecholamine levels and, 436-437 emergency physician morbidity and, 370-374 of helicopter transport, 435-438 Subclavian vein thrombosis, 120-123 Sudden cardiac death calcium in, role of, 1 causes of, 282 defibrillation procedures for, 282-286 definition of, 282 fluoride in, role of, 1-3 incidence of, 282 ventricular fibrillation and, 113 Suicidal tendencies, mental status examination for, 166, 168 Sulfuric acid poisoning, 507 Sulfuryl fluoride exposure, 509 Superoxide dismutase, 569-576, 669 Tachycardia cardioversion for, 48 supraventricular, 382 paroxysmal, treatment of, 555-560 sinus rhythm conversion of, 382-383 ventricular tachycardia v, 273-276 thoracic trauma-induced, 22-23 ventricular blood pressure effect on, 441 conjunctival oxygen tension monitoring during, 244-246 digoxin overdose and, 465-470 ECG of, 48 pacing hazards in helicopter transport with, 236-240 supraventricular tachycardia with aberrant conduction v, 273-276 thioridazine overdose-induced, 347 wide-complex, 273-276 differentiation of, 273-275 electrocardiography of, 273-275 origin of, 273 therapeutic implications for, 276 Talus joint dislocation, 600 Telephones, cellular, 35-38

Talus joint dislocation, 600
Telephones, cellular, 35-38
Testicular torsion
consultations regarding, 44
diagnosis of, 42-43
epidemiology of, 42
epididymitis and, 42-43
manual detorsion procedures for, 43-44
surgical management of, 44
Tetanus
cephalic, 128-130

Theophylline poisoning AAPCC study of, 492-493, 502 hypokalemia and, 214-218

etiologic agent of, 129 incidence of, 128

Thiabendazole, 463
Thioridazine overdose, 346-349, 512
Thiothexene poisoning, 495, 511
Thoracic fluid assessment, 337-340
Thoracic trauma, see Chest trauma

Thoracotomy
blood gas analysis of, 429, 430-432
for cardiac tamponade, 22-23
credentialing issues regarding, 279
for foreign body retrieval, 127

Thrombectomy, 122 Thrombolytic therapy, 120-123 **Thrombosis** axillary-subclavian vein, 120-123 carotid artery, 341-344 effort-induced deep venous, 120-123 from needle fragmentation in central venipuncture, 27, 29 Topical anesthetics, 266 Tourniquets, 224, 227 Toxicology AAPCC National Data System, see American Association of Poison Control National Data System drug screening tests and, 14-20, 65-68, 70-72 environmental, 296-298 pediatric, 405-406 poison control centers and, 391-392, 479-518 See also specific substance and drug Tracheobronchial obstruction, 611-613 Tracheobronchial rupture, 427-434 Tracheostomy, 40 Transcutaneous pacing, 78-79 Transport, patient, 656-657 ambulances for, 35-38, 449-452 for cardiac patients, 449-452 helicopter, see Helicopter transport time analysis for, 443-448 Transthoracic electical bioimpedance, 337-340 Transverse tarsal joint dislocation, 599-601 Traumatic injury, 519-529 abdominal, see Abdominal injury cervical spinal, see Cervical spinal injury facial fractures, 39-41, 128 foot fracture and dislocation, 599-601 head, see Head injury lacerations and, see Lacerations of lower extremity, 607-608 neck, see Neck injury pelvic, see Pelvic trauma thoracic, see Chest trauma Tricyclic antidepressants mechanism of action of, 567 overdose of AAPCC study of, 490-492, 502 circulatory shock from 566-568 hypotension from, 439-442 norepinephrine for, 566-568 signs and symptoms of, 566 Trimipramine poisoning, 492 Trismus, tetanus, 128-130 Tuberculosis, ileocecal, 351

Ultrasonography
of adrenal gland hematoma, 25-26
of ectopic pregnancy, 4-6, 327
of liver abscess, amebic, 628-630
of needle fragments, intravascular and intracardiac, 125
of pelvic abscess, 460
of pelvic inflammatory disease, 460
of testicular torsion, 43
Ureteral injuries, 621
Urethral injuries, 621-623
Urinalysis, drug screening tests by, 14-20
Urologic injuries, 621-623

Tuboovarian abscess, 459

Vagal maneuvers

complications of, 559-560

for paroxysmal supraventricular tachycardia, 555-560

Vaginal injuries, 620-621

Valsalva maneuver, 555-560

Vascular access

central venipuncture for, 27-30

intraosseous infusions v, 330-332

limited

arthroscopic irrigation tubing for, 324-326

venous distention device for, 224-227

onscene time anlaysis for, 448

pediatric

cardiac arrest and, 577-579

difficulties of, 330

Vascular injuries, 529

angiography of, see Angiography

carotid artery, nonpenetrating, 341-344

needle fragmentation-induced, 27-30, 124-127

thoracic, pericardial effusion from 21-23

from open pelvic fracture, 618-619

Vasodilator drug overdose, 493-494, 503

Venography, 122

Ventilation, see Airway management and ventilation

Ventricular arrhythmias, see Arrhythmias, ventricular Ventricular fibrillation, see Fibrillation, ventricular

Verapamil

for paroxysmal supraventricular tachycardia, 555, 558-560

toxicity of, AAPCC study of, 494, 513

Vertebral tumor, 26

Vitamin toxicity, 504

Wenckebach AV block, 472-473

Wolff-Parkinson-White syndrome, 276

Wound infections

from cactus spine puncture, 364-365

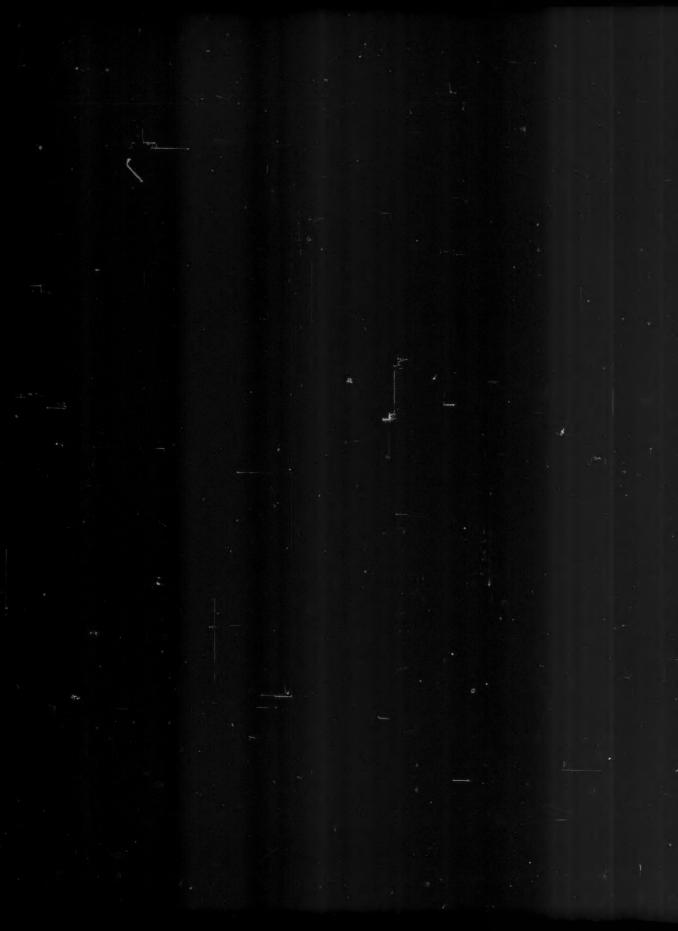
from scalp laceration repair without prior hair removal, 7-10

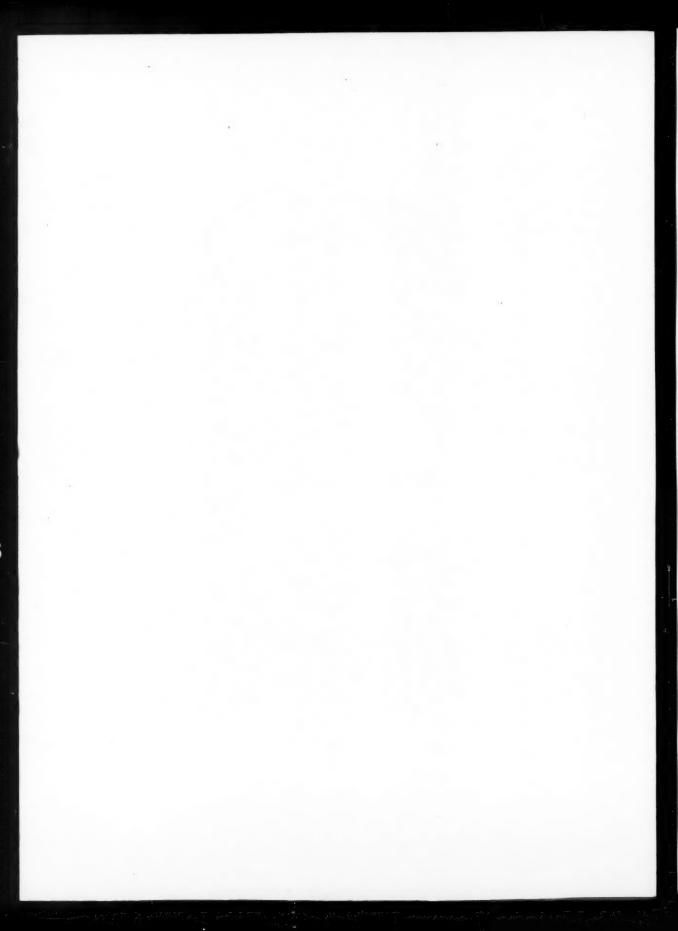
open pelvic fracture, 618

topical anesthetics predisposing to, 266

X-rays, see Radiography

Zinc levels, metal fume fever and, 609-610





Contents VOLUME 6, 1988

Number 1 ● January 1988

ORIGINAL CONTRIBUTIONS

Fluoride-induced Hyperkalemia: The Role of Ca ²⁺ -dependent K ⁺ Channels Charles C. Cummings, Michael E. McIvor	
Cost Effectiveness of an Accurate and Rapid Assay for Serum Human Chorionic Gonadotropin in Suspected Ectopic Pregnancy Paul Gennis, E. John Gallagher, Frank Anderson, Leslie Hain	
Scalp Laceration Repair Without Prior Hair Removal John M. Howell, James A. Morgan	
Conjunctival Oxygen Tension Monitoring During A Controlled Phlebotomy Michael Klein, Dean Hess, David Eitel, Denise Bauernshub, Nancy Sabulsky	1
Utilization and Yield of Drug Screening in the Emergency Department Arthur L. Kellermann, Stephan D. Fihn, James P. LoGerfo, Michael K. Copass	1
BRIEF REPORTS	
Echocardiographic Diagnosis of Acute Pericardial Effusion in Penetrating Chest Trauma DePriest Whye, Robert Barish, Tim Almquist, Georgina Groleau, Elizabeth Tso, Brian Browne	2
Persistent Shoulder Pain Following a Motor Vehicle Accident Mark W. Garber, Anthony M. Renzi	2
Cardiopulmonary Needle Embolization: A Complication of Central Venous Drug Abuse Mark C. Horattas, Donald W. Moorman	2
Successful Resuscitation of an Elderly Patient Following Cardiac Arrest: Possible Role of Reduction of Reactive Oxygen Hubert S. Mickel	3
Cellular Telephone Communication Between Hospitals and Ambulances Loren G. Yamamoto	3
CLINICAL NOTES	
Nasotracheal Intubation in Traumatic Craniofacial Dislocation: Use of the Lighted Stylet Vincent P. Verdile, Michael B. Heller, Paul M. Paris, Ronald D. Stewart	3
DIAGNOSTICS	
Diagnosis and Management of Testicular Torsion: Pitfalls and Perils Douglas Lindsey, Thomas H. Stanisic	4
Cases in Electrocardiography Tighe Zimmers	4
CONTROVERSIES	
The Uprooting of Observational Units from Emergency Departments: Opportunity Lost for Emergency Medicine? Jerrold B. Leikin	4
RESEARCH SEMINAR	
Statistical Reasoning in Clinical Trials: Hypothesis Testing Gabor D. Kelen, Charles G. Brown, James Ashton	5

INTERNATIONAL NOTES

International Abstracts 62

THE LITERATURE OF EMERGENCY MEDICINE	
Toxicology: An Annotated Bibliography of the Recent Literature Thomas G. Martin, Toby L. Litovitz	65
Book Reviews	73
EDITORIAL	
Of Pacing, Patents, and Patients Michael B. Heller	78
CORRESPONDENCE	
The Role of Hemoperfusion and Hemodialysis in Toxicology Toby Litovitz, Joseph C. Veltri	80
A Refinement of the Emergency Medicine Filing System James J. Augustine	80
Toxic Smoke Inhalation and Aircraft Fires Gregg A. Pane	82
Field Experience in Aeromedical Transport for an Emergency Medicine Residency William D. Rose, Thomas E. Anderson, Michael J. Leicht, John J. Skiendzielewski	82
Myocardial Contusion Without Obvious Severe Chest Trauma Steven A. Fein, Diane Lombardo, Krista Daudiss	84
Subungual Hematoma Jerris R. Hedges Robert R. Simon	85 85
CONSULTING REVIEWERS 1987	86
ANNOUNCEMENTS AND NOTICES	88
Number 2 ● March 1988	
ORIGINAL CONTRIBUTIONS	
Phenytoin Loading in Chronic Alcoholic Patients Robert D. Welch, Donald B. Smith, Steve F. Danosi, Mark L. Zwanger, Brooks F. Bock	89
The Observable Patient in the DRG Era Louis G. Graff, Martha J. Radford, Mary Ann Gunning, Carl S. Werne	93
A Comparison of the Frequency and Severity of Poisoning Cases for Ingestion of Acetaminophen, Aspirin, and Ibuprofen Joseph C. Veltri, Douglas E. Rollins	104
Cost-Effectiveness of Defibrillation by Emergency Medical Technicians Joseph P. Ornato, Edward J. Craren, Edgar R. Gonzalez, A. Randolph Garnett, Barbara K. McClung, Mary M. Newman	108

Cost-Effectiveness of Defibrillation by Emergency Medical Technicians Joseph P. Ornato, Edward J. Craren, Edgar R. Gonzalez, A. Randolph Garnett, Barbara K. McClung, Mary M. Newman Initial Treatment of Ventricular Fibrillation: Defibrillation or Drug Therapy Thomas G. Martin, Nancy S. Hawkins, Jesse A. Weigel, Dale E. Rider, Barry D. Buckingham BRIEF REPORTS Use of Thrombolytic Therapy in Axillary-Subclavian Vein Thrombosis Richard M. Novak, Jerrold B. Leikin, Bernardo Duarte Pulmonary Embolization of Needle Fragments Resulting from Intravenous Drug Abuse Douglas D. Brunette, David W. Plummer Cephalic Tetanus: A Case Report and Review of the Literature Andy Jagoda, Silvana Riggio, Thomas Burguires

Choreoathetoid Disorder Associated with Amphetamine-like Drugs Kenneth J. Rhee, Timothy E. Albertson, Jerald C. Douglas	131
Severe Metabolic Acidosis Secondary to Exertional Hyperlactemia Thomas M. Bozzuto	134
Isolated Axial Volvulus of a Meckel's Diverticulum Gregory P. Moore, Frederick M. Burkle	137
REVIEWS	
Acute Hydrofluoric Acid Exposure E. Martin Caravati	143
Cerebral Preservation During Cardiac Arrest Eric W. Brader	151
Meckel's Diverticulum Charles K. Brown, Jonathan S. Olshaker	157
DIAGNOSTICS	
The Mental Status Evaluation: Application in the Emergency Department Leslie Zun, David S. Howes	165
Decerebrate Posturing Misinterpreted as Seizure Activity Stephen J. Haines	173
CONTROVERSIES	
Esophageal Placement of an Endotracheal Tube by Paramedics: Problems with Current Management Neal Robert Abarbanell	178
AIDS: Implications for Emergency Medicine Gabor D. Kelen, James L. Baker	180
INTERNATIONAL NOTES	
International Abstracts	185
THE LITERATURE OF EMERGENCY MEDICINE	
Environmental Medicine: An Annotated Bibliography of the Recent Literature Suzanne M. Shepherd, John Charles	188
Book/Software Reviews	196
CORRESPONDENCE	
Emergency Physicians Raymond J. Roberge J. Douglas White	200 200
Safety of Treating Poisoning Patients With Whole Bowel Irrigation Wes Palatnick, Milton Tenenbein	200
Repetitive Doses of the Activated Charcoal-Sorbitol Combination: A Word of Caution John B. Sullivan, Edward P. Krenzelok Jeffrey Jones, M. J. McMullen, James Dougherty	201 202
Toxic Smoke Inhalation and Cyanide Poisoning Merrill A. Cohen, Lawrence J. Guzzardi Jeffrey Jones, M. J. McMullen, James Dougherty	203 204
Antibiotic Treatments for Hand Injuries Andrew T. Guertler	205
Inhaled Bronchodilators in Young Pediatric Asthmatic: A Method of Delivery David A. Berman, Robert Norris	206
ANNOUNCEMENTS AND NOTICES	207

Number 3 ● May 1988

ORIGINAL CONTRIBUTIONS

Clinical Manifestations of Toxicity in a Series of 784 Boric Acid Ingestions Toby L. Litovitz, Wendy Klein-Schwartz, Gary M. Oderda, Barbara F. Schmitz	209
Hypokalemia in Acute Theophylline Poisoning Yoni Amitai, Frederick H. Lovejoy, Jr	214
Traumatic Asphyxia in New Mexico: A Five-year Experience David P. Sklar, Bret Baack, Patricia McFeeley, Turner Osler, Ellen Marder, Gerald Demarest	219
Evaluation of Venous Distension Device: Phase II: Cannulation of Nonemergent Patients James T. Amsterdam, Jerris R. Hedges, Eugene Weinshenker, Deborah J. Schwytzer	224
Epiglottis at the Extremes of Age Jonathan I. Singer, John B. McCabe	228
BRIEF REPORTS	
Pyrethrin Poisoning from Commercial-Strength Flea and Tick Spray David L. Paton, James S. Walker	232
Pacing Hazards in Helicopter Aeromedical Transport Ahimsa Sumchai, George Sternbach, Michael Eliastam, L. Bing Liem	236
Pneumomediastinum as a Complication of "Crack" Smoking Steven L. Brody, Gail V. Anderson, Jimmy B. L. Gutman	241
Conjunctival Oxygen Monitoring: Relationship to Ventricular Arrhythmias Susan M. Harding, Sherman M. Podolsky, John H. Wertheimer	244
Maprotiline Poisoning in a Child Ricardo Peverini, Stephen Ashwal, Eugene Petry	247
REVIEW	
Nonconvulsive Status Epilepticus in Adults Andy Jagoda, Silvana Riggio	250
THERAPEUTICS	
Cardiopulmonary Arrest Following Intravenous Phenytoin Loading Ronald C. York, Samuel T. Coleridge	255
Role of a Hospital Team at an Industrial Explosion Bruce E. Haynes, Alfred C. Emmel	260
Painless Wound Injection Through Use of a Two-finger Confusion Technique Steven F. Bierman	266
DIAGNOSTICS	
Factors Affecting the Cervical Prevertebral Space in the Trauma Patient Jorge A. Martinez, Gregory A. Timberlake, James C. Jones, Ricardo Martinez, Steven R. Lessor, Philip W. McDill, Norman E. McSwain, Jr	268
Supraventricular Tachycardia with Aberrant Conduction Versus Ventricular Tachycardia: Differentiation and Diagnosis M. Andrew Levitt	273
CONTROVERSIES	
Credentialing of Emergency Physicians: Support for Delineation of Privileges in Invasive Procedures Edward A. Ramoska, Alfred D. Sacchetti, Todd M. Warden	278
EMT-Defibrillation: A Recipe for Saving Lives Paul M. Paris	282

INTERNATIONAL NOTES

		00
International Abstracts		28

THE LITERATURE OF EMERGENCY MEDICINE

- Environmental Medicine: An Annotated Bibliography of the Recent Literature (Part II)

 Suzanne M. Shepherd, John Charles

 290
- Book/Software Reviews 300
- Journal Club: Streptococcal Pharyngitis—Emerging Concepts Ronald B. Taylor, Howard A. Werman, Douglas A. Rund 306

EDITORIALS

- The Exclusion of Cervical Spine Injury T. Forcht Dagi
- Credentialing of Emergency Physicians Jerris R. Hedges, Bonita M. Singal

CORRESPONDENCE

- Assessing Interventions and Symptoms Following Early Administration of Streptokinase for Acute

 Myocardial Infarction David Applebaum, Yaron Ilan, Teddy Weiss, Mervyn Gotsman
- Absence of Back Pain and Tachycardia in the Emergent Presentation of Abdominal Aortic
 Aneurysm Tighe Zimmers 316
- Rapid Hypothermia Subsequent to Oral Nicotinic Acid Ingestion and Immersion in Warm (30°C)
 Water Roger W. Hubbard, Lawrence E. Armstrong, Andrew J. Young
- Emergency Medicine in New York Jeffrey L. Margulies 317
- Oral Activated Charcoal Therapy Michael D. Reed 318

Number 4 • July 1988

ORIGINAL CONTRIBUTIONS

- Sudden Cardiac Arrest in Israel: Factors Associated With Successful

 Resuscitation Mickey S. Eisenberg, Eli Hadas, Irit Nuri, David Applebaum, Arie Roth,
 Paul E. Litwin, Alfred Hallstrom, Eugene Nagel
- In Vitro Use of Arthroscopic Irrigation Tubing for Rapid Fluid Administration Chris Bidwell, Salvator J. Vicario
- Serum Amylase Levels in Ectopic Pregnancy Raymond J. Roberge, Robert L. Wears, Charles Sanz, Theodore R. Nicholson, Daniel F. Brennan
- Pediatric Intraosseous Infusions: Impact on Vascular Access Time Peter W. Glaeser,

 Joseph D. Losek, David B. Nelson, William A. Bonadio, Douglas S. Smith,

 Christine Walsh-Kelly, Halim Hennes
- Field Airway Management of the Trauma Patient: The Efficacy of Bag Mask
 Ventilation Kenneth J. Rhee, Robert J. O'Malley, James E. Turner, Richard E. Ward
- The Use of Transthoracic Electrical Bioimpedance in Assessing Thoracic Fluid Status in Emergency Department Patients Charles E. Saunders 337

BRIEF REPORTS

- Delayed Hemiparesis Following Nonpenetrating Carotid Artery Trauma Robert P. Mooney, Howard A. Bessen
- Hyperthermia, Hypertension, Hypertonia, and Coma in a Massive Thioridazine
 Overdose Paul S. Baker, Kevin S. Merigian, James R. Roberts, Amadeo J. Pesce,
 Lawrence A. Kaplan, Mitchell C. Rashkin

Hematometra Presenting as Acute Appendicitis: A Case Report Eugene Huang, John Howell	350
Intraosseous Infusion of Muscle Relaxants Brian S. Katan, Jonathan S. Olshaker, Susan E. Dickerson	353
Chemical Burns Secondary to Elemental Metal Exposure: Two Case Reports Robert A. Clare, Edward P. Krenzelok	355
Pneumoperitoneum as a Complication of Cardiopulmonary Resuscitation Kathleen M. Hargarten, Charles Aprahamian, James Mateer	358
CLINICAL NOTES	
Cactus Spine injuries Douglas Lindsey, Wally E. Lindsey	362
CLINICAL PATHOLOGY CASE CONFERENCE	
Emergency Physician Stress and Morbidity Leslie Zun, Michael Kobernick, David S. Howes	370
DIAGNOSTICS	
Initiating a Surveillance System for Childhood Injuries Douglas A. Boenning	375
Delayed Diagnosis of Coin Ingestion in Children Daniel L. Savitt, Suman Wason	378
Cases in Electrocardiography Tighe Zimmers	382
THERAPEUTICS	
Emergency Department Management of Retained Rectal Foreign Bodies Richard L. Wigle	385
INTERNATIONAL NOTES	
Emergency Medicine and The Developing World David P. Sklar	390
International Abstracts	394
THE LITERATURE OF EMERGENCY MEDICINE	
Pediatric Emergency Care: An Annotated Bibliography of the Recent Literature J. S. Surpure, Steve Barrett	397
Book/Software Reviews	409
EDITORIALS	
Emergency Medicine: Hospital Based? J. Douglas White	414
Four-Year Residency Training Redux Richard C. Levy	415
Reorganizing Academic Emergency Medicine: Who? Why? How? Glenn C. Hamilton	416
CORRESPONDENCE	
Diagnosis and Management of Testicular Torsion Joseph J. Levinsky	424
D. Lindsey, T. Stanisic	424
Credentialing of Emergency Physicians Edward A. Ramoska, Alfred Sacchetti, Todd Warden	424
ANNOUNCEMENTS AND NOTICES	426

Number 5 ● September 1988

ORIGINAL CONTRIBUTIONS

Management Takeshi Shimazu, Hisashi Sugimoto, Kazuyuki Nishide, Chikanori Terai, Noriyoshi Ohashi, Toshiharu Yoshioka, Tsuyoshi Sugimoto	421
Plasma Catecholamine Levels in Patients Transported by Helicopter for Acute Myocardial Infarction and Unstable Angina Pectoris Archie A. Tyson, David K. Sundberg, Daniel G. Sayers, K. Patrick Ober, Richard E. Snow	435
Hypotension in Severe Tricyclic Antidepressant Overdose Michael Shannon, James Merolg, Frederick H. Lovejoy, Jr	439
Factors Contributing to Paramedic Onscene Time During Evaluation and Management of Blunt Trauma Jerris R. Hedges, Stan Feero, Brian Moore, Bette Shultz, Dennis W. Haver	443
Critical Cardiac Transport: Air Versus Ground? Sandra Schneider, Zea Borok, Michael Heller, Paul Paris, Ronald Stewart	449
BRIEF REPORTS	
Epstein-Barr Virus Infection Complicated by Acute Rhabdomyolysis James L. McCabe, Serge Duckett, Paul Kaplan	453
Penicillin Anaphylaxis: Fatality in Elderly Patients Without a History of Penicillin Allergy Michael A. Sue, Dean T. Noritake, William B. Klaustermeyer	456
Delayed Pelvic Abscess Eight Years After Generalized Peritonitis Janice M. Pearl, Gary Mimura, John Ho	459
Cutaneous Larva Migrans in Northern Climates Debra Herbener, Jonathan Borak	462
Acute Digoxin Overdose: Use of Digoxin-specific Antibody Fragments William Clarke, Edward A. Ramoska	465
CLINICAL NOTES	
Disposable Noseclips Used for Temporary Control of Anterior Nosebleeds	471
DIAGNOSTICS	
Cases in Electrocardiography Tighe Zimmers	472
THERAPEUTICS	
Resuscitation of the Hypothermic Patient David J. Cohen, Joseph R. Cline, Susan M. Lepinski, H. Michael Bowman, Kevin Ireland	475
TOXICOLOGY	
1987 Annual Report of the American Association of Poison Control Center National Data Collection System Toby L. Litovitz, Barbara F. Schmitz, Nancy Matyunas, Thomas G. Martin	479

THE LITERATURE OF EMERGENCY MEDICINE

INTERNATIONAL NOTES

International Abstracts

Irauma: An Annotated Bibliography of the Recent Literature	Charles McCabe	313
Book/Software Reviews		530

516

EDITORIALS

How Quickly They Forget Marc S. Nelson

Legislative Victories J. Douglas White

539

Faculty Development in Emergency Medicine Glenn C. Hamilton

Poisonings in the United States, 1987 William O. Robertson

544

CORRESPONDENCE

DIC and Rhabdomyolysis Following Pseudoephedrine Overdose J. Salmon, D. Nicholson 545

ANNOUNCEMENTS AND NOTICES

547

Number 6 ● November 1988

ORIGINAL CONTRIBUTIONS

- Conjunctival Oxygen Tension Monitoring in Emergency Department Patients Edward Abraham, 549
 Stan Fink
- Treatment of Paroxysmal Supraventricular Tachycardia in the Emergency Department by Clinical Decision Analysis Joseph P. Ornato, Luanne F. Hallagan, William A. Reese, Richard F. Clark, Victor S. Tayal, A. Randy Garnett, Edgar R. Gonzalez
- Electroventilation in the Baboon C. E. Riscili, K. S. Foster, W. D. Voorhees, J. D. Bourland, L. A. Geddes
- Beneficial Effect of Norepinephrine in the Treatment of Circulatory Shock Caused by Tricyclic
 Antidepressant Overdose Luis Teba, Franklin Schiebel, Harakh V. Dedhia, Valerie A. Lazzell
- Effect on Biochemical Markers of Brain Injury of Therapy With Deferoxamine of Superoxide Dismutase Following Cardiac Arrest Blaine C. White, Narsimha R. Nayini, Gary S. Krause, Steven D. Aust, Gary G. March, James S. Bicknell IV, Mark Goosmann
- Intravascular Access in Pediatric Cardiac Arrest Douglas D. Brunette, Robin Fischer 577
- A Comparison of Venous Blood Gases During Cardiac Arrest Charles L. Emerman, Alfred C.

 Pinchak, Joan F. Hagen, Donald Hancock

 580
- The Effects of Antishock Trouser Inflation During Hypothermic Cardiovascular Depression in the Canine Model Paul W. Kolodzik, Mary J. Mullin, Jon T. Krohmer, John B. McCabe

BRIEF REPORTS

J. Roberge

- Pacemaker Failure Associated With Therapeutic Radiation Christopher Brooks, Mitchell Mutter 591
- Delayed-Onset Bochdalek Hernia in a 3-Year-Old Child Vanessa R. Reynolds, Ronald B. May 594
- Carbon Monoxide Poisoning at High Altitudes Richard G. Foutch, Wade Henrichs 596
- Isolated Plantar Midtarsal Dislocation John C. Ruthman, Norman P. Meyn

 Survival Following Massive Arsenic Ingestion Francis M. Fesmire, Jay L. Schauben, Raymond

 602
- Ipsilateral Retrograde Arterial Contrast Injection in Unilateral Lower Extremity Trauma Steven C. Rose, Ernest E. Moore 607
- Elevated Serum Zinc Levels in Metal Fume Fever Nancy E. Noel, John C. Ruthman 609

Fatal Prolonged Foreign Body Aspiration Following an Asymptomatic Interval C. Thomas Humphries, Jeffrey S. Wagener, Wayne J. Morgan	611
Acute Recurrent Appendicitis With Appendicolith Jeremy J. Hollerman, Marc A. Bernstein, S. R. Kottamasu, Steven A. Sirr	614
REVIEW	
Blunt Pelvic Trauma Howard S. Snyder	618
DIAGNOSTICS	
Amebic Liver Abscess: Emergency Department Diagnosis David Doezema, Mark Hauswald	628
Cases in Electrocardiography Tighe Zimmers, Frank Ma	631
THERAPEUTICS	
Nalbuphine Analgesia in the Prehospital Setting John K. Stene, Lisa Stofberg, Gregg MacDonald, Roy A. Myers, Ameen Ramzy, Barry Burns	634
Cranial Burr Hole Decompression in the Emergency Department Martin F. B. Springer, Frank J. Baker	640
CONTROVERSIES	
Multiple Authorship, Basic Research, and Other Trends in the Emergency Medicine Literature (1975 to 1986) Robert D. Powers	647
INTERNATIONAL NOTES	
International Abstracts	651
THE LITERATURE OF EMERGENCY MEDICINE	
Critical Care Medicine: An Annotated Bibliography of the Recent Literature Garrett E. Foulke, Timothy E. Albertson	654
Cerebral Resuscitation: An Annotated Bibliography of the Recent Literature Robert E. Rosenthal, Jeffrey P. Smith	666
Book/Software Reviews	673
EDITORIALS	
Central Versus Mixed Venous Blood Gases During Cardiopulmonary Resuscitation Edgar R. Gonzalez, Joseph P. Ornato	676
Trends, Truth, and Consequences in the Emergency Medicine Literature J. Douglas White	677
Transferring Patients Without Doing Burr Holes Howard A. Freed	678
CORRESPONDENCE	
Obtundation in the Elderly Patient Neal Little James Svenson	679 679
Pulsatile Tinnitus During a Valsalva Maneuver in a Patient With Wolff-Parkinson-White Syndrome Howard Rodenberg, Matthew Gratton	679
Povidone-Iodine Solutions in Traumatic Wound Preparation Kenneth G. Rothwell	681
Michael S. Oberg	681
Chemical Stability of Sublingual Nitroglycerin Tablets Carried on Paramedic Vehicles Steven J. Rottman, Baxte. Larmon, Tom Mannix, Steven Curry	681

Possible Interference of Flumazenil on Benzodiazepine Measurement in Blood and Urine Doem, Pierre-François Unger	André	683
ANNOUNCEMENTS AND NOTICES		684
INDEX TO VOLUME 6		685

